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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/009,770	12/17/2001	Steve Duncan	216348US2PCT	8149
22850	7590 04/29/2005		EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			HA, DAC V	
			ART UNIT	PAPER NUMBER
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DATE MAILED: 04/29/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		10/009,770	DUNCAN ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Dac V. Ha	2634			
Period fo	The MAILING DATE of this communication a or Reply	ppears on the cover sheet	with the correspondence addre	SS		
A SH THE - Exte after - If the - If NO - Faile Any	IORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION ensions of time may be available under the provisions of 37 CFR of SIX (6) MONTHS from the mailing date of this communication. eperiod for reply specified above is less than thirty (30) days, a report of the provision of the p	I. 1.136(a). In no event, however, may eply within the statutory minimum of t od will apply and will expire SIX (6) M ute, cause the application to become	a reply be timely filed hirty (30) days will be considered timely. ONTHS from the mailing date of this comm ABANDONED (35 U.S.C. § 133).	nunication.		
Status						
1) 又	Responsive to communication(s) filed on 17	December 2001.				
		nis action is non-final.				
′=	Since this application is in condition for allow		atters, prosecution as to the m	erits is		
,—	closed in accordance with the practice under	•	• •			
isposit	ion of Claims					
4)⊠	Claim(s) 1-27 is/are pending in the application	on.				
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)	Claim(s) is/are allowed.					
6)🛛	Claim(s) <u>1-27</u> is/are rejected.					
7)	Claim(s) is/are objected to.					
8)□	Claim(s) are subject to restriction and	or election requirement.				
pplicat	ion Papers					
9)[The specification is objected to by the Exami	ner.				
•	The drawing(s) filed on is/are: a) ad		o by the Examiner.			
	Applicant may not request that any objection to the	ne drawing(s) be held in abey	ance. See 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the corre	ection is required if the drawir	ng(s) is objected to. See 37 CFR	1.121(d).		
11)	The oath or declaration is objected to by the l	Examiner. Note the attach	ed Office Action or form PTO-	152.		
riority (under 35 U.S.C. § 119					
	Acknowledgment is made of a claim for foreig ☐ All b) ☐ Some * c) ☒ None of: 1. ☒ Certified copies of the priority docume 2. ☐ Certified copies of the priority docume 3. ☐ Copies of the certified copies of the priority docume	nts have been received. nts have been received in iority documents have bee	Application No	ige		
* (See the attached detailed Office action for a lis	st of the certified copies no	ot received.			
Mark:	440)					
ttachmen	e of References Cited (PTO-892)	4) 🗖 Intension	Summary (PTO-413)			
	ce of Draftsperson's Patent Drawing Review (PTO-948)		o(s)/Mail Date			
) 🛛 Infor	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 or No(s)/Mail Date 03/20/02.		f Informal Patent Application (PTO-15	2)		
rape	i Ivo(a)/Iviaii Date <u>US/ZU/UZ</u> .	o) 🗀 Ouler	 '			

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DETAILED ACTION

Priority

1. Acknowledgment is made of applicant's claim for foreign priority based on an application filed in United Kingdom on 04/17/00. It is noted, however, that applicant has not filed a certified copy of the foreign application as required by 35 U.S.C. 119(b).

Claim Objections

2. Claims 7-13, 20-25, 27 objected to under 37 CFR 1.75(c) as being in improper form because a multiple dependent claim, i.e. claims 5, 18, can not serve as a basis for any other multiple dependent claim. See MPEP § 608.01(n). Accordingly, the claims 7-13, 20-25, 27 not been further treated on the merits.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000.

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Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

4. Claims 1, 14, 26 are rejected under 35 U.S.C. 102(e) as being anticipated by Rinne (US 5,987,063).

Regarding claim 1, Rinne discloses the claimed subject matter in claim 1 including "performing a separate Fourier Transform on the sampled signal, the separate Fourier Transform being a partial and/or reduced Fourier Transform to derive phase values for at least two points thereof, and compensating for the sampling frequency offset in dependence on the phase values" in Figure 3, elements 2, 5; col. 5, lines 11-50.

Regarding claims 14, 26, see claim 1 above and further in col. 2, line 63 to col. 5, line 11.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 2-13, 15-25, 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rinne in view of Stott et al. (US 6,628,730) (hereafter Stott).

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Regarding claims 2-13, 15-25, 27, giving the conventional make-up of the OFDM system, i.e. see Stott, such claimed subject matter in claims 2-13, 15-25, 27 would have been obvious to one skilled in the art based on Rinne.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Armbruster et al. (US 6,304,545) disclose Method And Circuit Arragngement For The Correction OF Phase And/Or Frequency Errors In Digital MultiCarrier Signals.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dac V. Ha whose telephone number is 571-272-3040. The examiner can normally be reached on 5/4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on 571-272-3056. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Dac V. Ha

Primary Examiner Art Unit 2634